

## Class 9 Chapter a truly beautiful mind

### Answer the following questions:

1. Explain what the reasons for the following are:
  1. Einstein leaving the school in Munch for good.
  2. Einstein wanting to study in Switzerland rather than in Munich
  3. Einstein seeing in Mileva an ally.
  4. What do these tell you about Einstein?

Answers:

1. Einstein left the school in Munch because he did not like the discipline of the school. He hated the school's regimentation and often clashed with the teachers.
  2. Albert's parents moved to Milan and left their son with relatives. After prolonged discussion. Einstein got his wish to continue his education in German speaking Switzerland. Actually it was more liberal than Munich
  3. Einstein saw Mileva Maric an ally against the "Philistines"-those people in his family and at the university with whom he was constantly at odds. He found that she was a "clever creature"
  4. These tell that Einstein was a genius and had the capabilities to achieve his target .Moreover; he had his own view of life. He liked freedom too much.
2. What did Einstein call his desk drawer at the patent office? Why?
    - A. Einstein called the desk drawer at the patent office the 'bureau of theoretical physics'. Einstein was actually developing his own ideas in secret and his drawer had all the evidence which could reveal the secret.
  3. Why did Einstein write a letter to Franklin Roosevelt?
    - A. With the emergence of Nazis in Germany Einstein emigrated to the United Sates. It was the fact that the Nazis had the ability to develop the atomic bomb. It could destroy the world. So he warned Franklin D.Roosevelt in his letter.
  4. How did Einstein react to the bombing of Hiroshima and Nagasaki?

- A. The atomic bomb devastated the Japanese cities of Hiroshima and Nagasaki. He was deeply shaken by the extent of the destruction and wrote a public missive to the United Nations.
5. Why does world remember Einstein as a 'world citizen'
- A. The world remembers Einstein as a 'world citizen' because he believed in universal peace. When there was the rat race for making atomic power, he was worried about the aftermaths of the bomb. He was really a world citizen who was concerned for human beings
6. Why Einstein's play mate did like him?
- A. When Einstein was two-and-a-half years old, he still wasn't talking. When he finally learnt to talk, he spoke everything twice. His playmates called him 'Brother Boring'. So Einstein played by himself much of the time.
7. Why did newspapers proclaim Einstein's work as 'scientific revolution'?
- A. In 1915 Einstein published his General 'Theory of Relativity.' It gave new interpretations of gravity. An eclipse of the sun in 1919 proved its correctness. He had correctly calculated in advance the extent to which the light from fixed stars would be deflected through the sun's gravitational fields. The news papers hailed his work as 'scientific revolution'.
8. Explain the social and humane values of Einstein towards the world?
- A. Einstein was a great man of high caliber. Nobody can deny his contribution in the scientific field. In the year 1905, his famous theories came with special Theory of relativity. It specified that time and distance are not absolute. He also established a relation between energy and mass. He proved the interchange ability of energy and mass that became the basis of use of nuclear energy. Mass destruction caused by bombing of Hiroshima and Nagasaki touched his heart. He dedicated his rest of his life to fight against this enemy of humanity. Because of his tireless efforts for the humanity he was considered both as a visionary and a world citizen.

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